#### **CONCEPT:** FUNCTIONAL GROUPS IN CHEMISTRY

• Functional Group: the part of a molecule that is recognizable and responsible for a compound's \_\_\_\_\_

### **Hydrocarbons**

• Compounds containing only carbons and hydrogens.

**EXAMPLE:** Identify the type of functional group(s) present within the following compound.

# **Functional Groups without Carbonyls**

- Carbonyl Group: represents a carbon doubled bonded to an oxygen: \_\_\_\_\_.
  - □ Functional groups w/o a carbonyl group are recognizable by the presence of a \_\_\_\_\_, \_\_\_\_ , \_\_\_\_ or \_\_\_\_\_.

**EXAMPLE:** Identify the type of functional group(s) present within the following compound.

### **CONCEPT:** FUNCTIONAL GROUPS IN CHEMISTRY

## **Functional Groups with Carbonyls**

• These types of functional groups share some structural similarities with those without carbonyls.

**EXAMPLE:** Identify the type of functional group(s) present within the following compound.

**PRACTICE:** Identify the type of functional group(s) present within the following compound.

$$\begin{array}{c|c} \mathsf{O} & & \mathsf{O} \\ \parallel & & \mathsf{C} \\ \mathsf{CH_3CH=CHCH_2} & \mathsf{N} \\ \mathsf{CH_3} & & \mathsf{CH_3} \end{array}$$

**PRACTICE:** Identify the type of functional group(s) present within the following compound.